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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/047,688	. 01/15/2002	Z. Valy Vardeny	UTU-10002/29	3863	
75	590 09/30/2003				
John G. Posa Gifford, Krass, Groh, Sprinkle, Anderson & Citkowski, PC 280 N. Old Woodward Ave., Suite 400 Birmingham, MI 48009			EXAMINER		
			YAMNITZKY, MARIE ROSE		
			ART UNIT	PAPER NUMBER	
			1774		
			DATE MAILED: 09/30/2003	9	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
		10/047,688	VARDENY ET AL.				
Office Action Summary		Examiner	Art Unit				
		Marie R. Yamnitzky	1774				
Period f	The MAILING DATE of this communication app or Reply	ars on the cover sheet with t	he correspond nce addres	is			
THE - Extending - If th - If No - Fail - Any	MORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. In SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing leed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS, cause the application to become ABANE	be timely filed)) days will be considered timely. from the mailing date of this commu	inication.			
1)	Responsive to communication(s) filed on 15 J	lanuary 2002 .					
2a)□		is action is non-final.					
3)	Since this application is in condition for allowards closed in accordance with the practice under			erits is			
· _	tion of Claims						
4)⊠	Claim(s) <u>1-24</u> is/are pending in the application						
€ \□	4a) Of the above claim(s) is/are withdray	vn from consideration.		•			
5)∐	Claim(s) is/are allowed.	·					
6) <u> </u>							
• 7)∐	Claim(s) is/are objected to.	ologica accident					
	Claim(s) <u>1-24</u> are subject to restriction and/or ection Papers	election requirement.					
_	The specification is objected to by the Examiner	•					
	The drawing(s) filed on is/are: a) accep		Examiner				
, —	Applicant may not request that any objection to the						
11)	The proposed drawing correction filed on						
	If approved, corrected drawings are required in rep	ly to this Office action.	,				
12)	The oath or declaration is objected to by the Exa	aminer.					
Priority	under 35 U.S.C. §§ 119 and 120						
13)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 11	19(a)-(d) or (f).				
a)	☐ All b)☐ Some * c)☐ None of:	•					
	1. Certified copies of the priority documents	s have been received.		•			
	2. Certified copies of the priority documents	s have been received in Appli	cation No				
* (3. Copies of the certified copies of the prior application from the International Bur See the attached detailed Office action for a list of the control of the certification of the prior application of the prior application of the certification of the certificati	eau (PCT Rule 17.2(a)).		je			
	Acknowledgment is made of a claim for domestic	·		olication).			
a	a) The translation of the foreign language pro- Acknowledgment is made of a claim for domestic	visional application has been	received.	,			
Attachmen		- p	. — S WITH VI III.				
2) 🔲 Notic	ce of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Infor	mary (PTO-413) Paper No(s) mal Patent Application (PTO-152				

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Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-11 and 13-20, drawn to a method of increasing the efficiency of a luminescent material, classified in class 438, subclass 800.
- II. Claims 12, 21, 23 and 24, drawn to a light emitting device, classified in class 428, subclass 690.
- III. Claim 22, drawn to a material, classified in class 252, subclass 301.16.

The inventions are distinct, each from the other because of the following reasons:

Inventions of Group I and Group III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the process as claimed can be used to make a materially different product consisting of a luminescent material with no impurity (as in the case where the process entails application of an external magnetic field), or a product in which the luminescent material is not an electro-luminescent compound.

Inventions of Group II and Group III are related as combination and subcombination.

Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination

as claimed because the combination does not require an impurity. The subcombination has

separate utility such as a component of a fluorescent paint.

Inventions of Group I and Group II are somewhat related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the inventions are said to be somewhat related because the process as claimed does not directly make the product as claimed. The process as claimed can be used to make a materially different product such as a fluorescent paint.

Because these inventions are distinct for the reasons given above and the searches required for each Group are not coextensive, restriction for examination purposes as indicated is proper.

In addition to the preceding restriction requirement, an election of species is also required if applicants elect Group I or Group II.

With respect to the invention of Group I, this application contains claims directed to the following patentably distinct species of the claimed method:

(a) a method in which luminescent material is processed to increase the spin flip rate of carriers wherein

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the material is (i) a polymer, (ii) an oligomer, (iii) a molecular crystal or (iv) a fullerene and

the processing includes (v) adding an impurity, (vi) applying a magnetic field or (vii) increasing effective spin temperature; or

(b) a method in which an impurity is added to a light-emitting material to increase spinlattice relaxation rate of carriers wherein

the material is (i) a polymer, (ii) an oligomer, (iii) a molecular crystal or (iv) a fullerene.

With respect to the invention of Group II, this application contains claims directed to the following patentably distinct species of the claimed device:

(c) a device utilizing a material having an increased spin flip rate wherein the device is (viii) an electro-luminescent device or (ix) a laser; or(d) a device utilizing a material having an increased spin-lattice relaxation rate.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. This is, if applicants elect Group I in response to the restriction requirement, applicants are required to elect one of (a) or (b), elect one of (i)-(iv) and, if (a) is elected, further elect one of (v)-(vii). If applicants elect Group II in response to the restriction

requirement, applicants are required to elect one of (c) or (d) and, if (c) is elected, further elect one of (viii) or (ix). Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

No telephone call was made to request an oral election to the above restriction and election of species requirements due to the complexity of the requirements.

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Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication should be directed to Marie R. Yamnitzky at telephone number (703) 308-4413. The examiner works a flexible schedule but can generally be reached at this number from 6:30 a.m. to 4:00 p.m. Monday, Tuesday, Thursday and Friday, and every other Wednesday from 6:30 a.m. to 3:00 p.m.

The current fax numbers for Art Unit 1774 are (703) 872-9306 for all official faxes. (Unofficial faxes to be sent directly to examiner Yamnitzky can be sent to (703) 872-9041.)

MRY

September 29, 2003

MARIE YAMNITZKY PRIMARY EXAMINER

Marie K. Garately

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